Notice of Allowability	Application No.	Applicant(s)	
	10/690,137	ASHER ET AL.	
	Examiner	Art Unit	
	Daniel Kim	2185	
	- Danior Kin	12100	<u> </u>
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED i or other appropriate comm IGHTS. This application is	n this application. If not includ- unication will be mailed in due	ed course. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>4/27/07</u> .			
2. X The allowed claim(s) is/are <u>1-9, 13-15 and 19-24 (renumber</u>	ered as 1-18 <u>)</u> .		
<ul> <li>3. Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> </ul>	e been received.		
Copies of the certified copies of the priority documents have			ition from the
International Bureau (PCT Rule 17.2(a)).	odmonto navo boon rocorre	·	
* Certified copies not received:	•		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the re	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Revie	w ( PTO-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	<i>,</i>		•
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment o	r in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the header according to 37 C	the drawings in the front (not the FR 1.121(d).	e back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MAT FOR THE DEPOSIT OF BI	ERIAL must be submitted. ( OLOGICAL MATERIAL.	Note the
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Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 ☐ Notice of I	nformal Patent Application	
<ol> <li>Notice of Neterences offed (110-092)</li> <li>D Notice of Draftperson's Patent Drawing Review (PTO-948)</li> </ol>	. <del></del>	Summary (PTO-413),	
	Paper No	./Mail Date	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7.   Examiner's Amendment/Comment		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's	s Statement of Reasons for Allo	owance
	9.		
		Sam	
		STEPHEN C. PRIMARY EX	ELMORE AMINER

10/690,137 Art Unit: 2185

## Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance:

In independent claims 1, 13, 19 and 24 directed towards an apparatus including a novel architecture for set associative cache and a method of absorbing defects in a set associative cache, the following features taken in combination with the remaining limitations in the independent claims are not found in and/or are not obvious in view of the prior art of record:

Claim 1, "access control logic which manages access to the cache and is coupled to said plurality of ways, the access control logic being physically closer to the first way than to the other ways of the plurality of ways" and "wherein the access control logic controls the mux in a bank to remap any defective way in a bank to the first way in that same bank".

Claim 13, "wherein each bank includes a first way that has a physical path to said access control logic that is shorter than the respective physical paths from the other ways of the bank to said access control logic" and "wherein the access control logic controls the mux in a bank to remap any defective way in that bank to the first way in that same bank".

Claim 19, "wherein a first way in each bank has a faster access time than the access time of the other ways of the plurality of ways in each bank" and "using the mux in a bank to remap any defective way in a bank to the first way in that same bank".

Claim 24, "wherein each bank includes a first way segment that has a physical path to said access control logic that is shorter than the respective physical paths from

Application/Control Number:

10/690,137

Art Unit: 2185

Page 3

the other ways of the bank to said access control logic" and "wherein the access control

logic controls the mux in a given bank to remap any defective way segment in that bank

to the first way segment in that same bank".

2. Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance".

**Contact Information** 

3. Any inquiries concerning this action or earlier actions from the examiner should

be directed to Daniel Kim, reachable at 571-272-2742, on Mon-Fri from 10:00am-

6:30pm. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Sanjiv Shah, is also reachable at 571-272-4098.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information from

published applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. All questions

regarding access to the Private PAIR system should be directed to the Electronic

Business Center (EBC), reachable at 866-217-9197.

STEPHEN C. ELMORE

Application/Control Number: 10/690,137 Art Unit: 2185

Page 4

12-14-07